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Environment Testing  
America



## ANALYTICAL REPORT

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Laboratory Job ID: 280-139925-1

Client Project/Site: Xcel Energy GW CCR Monitoring -  
Comanche

For:  
HDR Inc  
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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# Definitions/Glossary

Client: HDR Inc

Job ID: 280-139925-1

Project/Site: Xcel Energy GW CCR Monitoring - Comanche

## Qualifiers

### Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: HDR Inc  
Project/Site: Xcel Energy GW CCR Monitoring - Comanche

Job ID: 280-139925-1

**Job ID: 280-139925-1**

**Laboratory: Eurofins TestAmerica, Denver**

Narrative

## CASE NARRATIVE

**Client: HDR Inc**

**Project: Xcel Energy GW CCR Monitoring - Comanche**

**Report Number: 280-139925-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### **RECEIPT**

The samples were received on 8/28/2020 1:05 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.3° C and 5.9° C.

### **Receipt Exceptions**

There is a client sample ID MW-7-Dup, but no MW-7. The sample was logged with ID "W-7-DUP" unless instructed otherwise.

2320B Alkalinity analysis is reported separately under SDG 280-139925-2. The requested 6020A Total Metals analysis is reported under this SDG 280-139925-1.

### **TOTAL RECOVERABLE METALS (ICPMS)**

Samples W-2A (280-139925-1), W-3 (280-139925-2), W-5 (280-139925-3), W-6 (280-139925-4), W-7 (280-139925-5), MW-1 (280-139925-6), MW-2 (280-139925-7), MW-3 (280-139925-8), MW-4 (280-139925-9), MW-5 (280-139925-10), MW-6 (280-139925-11), W-7-DUP (280-139925-12) and MW-3-EB (280-139925-13) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 09/02/2020 and analyzed on 09/03/2020, 09/04/2020 and 09/08/2020.

Magnesium failed the recovery criteria low for the MS of sample W-2A (280-139925-1) in batch 240-450444. Potassium, Magnesium and Sodium failed the recovery criteria low for the MSD of sample W-2A (280-139925-1) in batch 240-450444. The acceptable LCS data indicate that the analytical system was operating within control. Refer to the QC report for details.

The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount. Refer to the QC report for details.

Samples W-2A (280-139925-1)[10X], W-3 (280-139925-2)[2X], W-5 (280-139925-3)[2X], W-6 (280-139925-4)[2X], W-7 (280-139925-5)[10X], MW-1 (280-139925-6)[10X], MW-2 (280-139925-7)[10X], MW-3 (280-139925-8)[10X], MW-5 (280-139925-10)[10X] and W-7-DUP (280-139925-12)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: HDR Inc

Job ID: 280-139925-1

Project/Site: Xcel Energy GW CCR Monitoring - Comanche

## Client Sample ID: W-2A

## Lab Sample ID: 280-139925-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	7900		10	2.0	mg/L	10		6020A	Total Recoverable
Potassium	59	F1	1.0	0.22	mg/L		1	6020A	Total Recoverable
Sodium	5500		10	3.3	mg/L		10	6020A	Total Recoverable

## Client Sample ID: W-3

## Lab Sample ID: 280-139925-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	280		2.0	0.40	mg/L	2		6020A	Total Recoverable
Potassium	15		1.0	0.22	mg/L		1	6020A	Total Recoverable
Sodium	290		2.0	0.66	mg/L		2	6020A	Total Recoverable

## Client Sample ID: W-5

## Lab Sample ID: 280-139925-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	580		2.0	0.40	mg/L	2		6020A	Total Recoverable
Potassium	9.5		1.0	0.22	mg/L		1	6020A	Total Recoverable
Sodium	2000		2.0	0.66	mg/L		2	6020A	Total Recoverable

## Client Sample ID: W-6

## Lab Sample ID: 280-139925-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	860		2.0	0.40	mg/L	2		6020A	Total Recoverable
Potassium	9.9		1.0	0.22	mg/L		1	6020A	Total Recoverable
Sodium	1600		2.0	0.66	mg/L		2	6020A	Total Recoverable

## Client Sample ID: W-7

## Lab Sample ID: 280-139925-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	7200		10	2.0	mg/L	10		6020A	Total Recoverable
Potassium	58		1.0	0.22	mg/L		1	6020A	Total Recoverable
Sodium	7600		10	3.3	mg/L		10	6020A	Total Recoverable

## Client Sample ID: MW-1

## Lab Sample ID: 280-139925-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	2000		10	2.0	mg/L	10		6020A	Total Recoverable
Potassium	35		1.0	0.22	mg/L		1	6020A	Total Recoverable
Sodium	3300		10	3.3	mg/L		10	6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

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# Detection Summary

Client: HDR Inc

Job ID: 280-139925-1

Project/Site: Xcel Energy GW CCR Monitoring - Comanche

## Client Sample ID: MW-2

## Lab Sample ID: 280-139925-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	3600		10	2.0	mg/L	10		6020A	Total Recoverable
Potassium	68		1.0	0.22	mg/L	1		6020A	Total Recoverable
Sodium	7400		10	3.3	mg/L	10		6020A	Total Recoverable

## Client Sample ID: MW-3

## Lab Sample ID: 280-139925-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	5600		10	2.0	mg/L	10		6020A	Total Recoverable
Potassium	53		1.0	0.22	mg/L	1		6020A	Total Recoverable
Sodium	6600		10	3.3	mg/L	10		6020A	Total Recoverable

## Client Sample ID: MW-4

## Lab Sample ID: 280-139925-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	220		1.0	0.20	mg/L	1		6020A	Total Recoverable
Potassium	14		1.0	0.22	mg/L	1		6020A	Total Recoverable
Sodium	810		1.0	0.33	mg/L	1		6020A	Total Recoverable

## Client Sample ID: MW-5

## Lab Sample ID: 280-139925-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	2200		10	2.0	mg/L	10		6020A	Total Recoverable
Potassium	39		1.0	0.22	mg/L	1		6020A	Total Recoverable
Sodium	5200		10	3.3	mg/L	10		6020A	Total Recoverable

## Client Sample ID: MW-6

## Lab Sample ID: 280-139925-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	350		1.0	0.20	mg/L	1		6020A	Total Recoverable
Potassium	9.8		1.0	0.22	mg/L	1		6020A	Total Recoverable
Sodium	930		1.0	0.33	mg/L	1		6020A	Total Recoverable

## Client Sample ID: W-7-DUP

## Lab Sample ID: 280-139925-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	7200		10	2.0	mg/L	10		6020A	Total Recoverable
Potassium	56		1.0	0.22	mg/L	1		6020A	Total Recoverable
Sodium	7600		10	3.3	mg/L	10		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

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## Detection Summary

Client: HDR Inc

Project/Site: Xcel Energy GW CCR Monitoring - Comanche

Job ID: 280-139925-1

**Client Sample ID: MW-3-EB**

**Lab Sample ID: 280-139925-13**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	0.20	J	1.0	0.20	mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

## Method Summary

Client: HDR Inc

Project/Site: Xcel Energy GW CCR Monitoring - Comanche

Job ID: 280-139925-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Sample Summary

Client: HDR Inc

Job ID: 280-139925-1

Project/Site: Xcel Energy GW CCR Monitoring - Comanche

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-139925-1	W-2A	Water	08/26/20 14:40	08/28/20 13:05	
280-139925-2	W-3	Water	08/27/20 17:10	08/28/20 13:05	
280-139925-3	W-5	Water	08/27/20 09:05	08/28/20 13:05	
280-139925-4	W-6	Water	08/27/20 09:00	08/28/20 13:05	
280-139925-5	W-7	Water	08/27/20 14:00	08/28/20 13:05	
280-139925-6	MW-1	Water	08/27/20 13:25	08/28/20 13:05	
280-139925-7	MW-2	Water	08/28/20 09:30	08/28/20 13:05	
280-139925-8	MW-3	Water	08/27/20 10:55	08/28/20 13:05	
280-139925-9	MW-4	Water	08/26/20 16:50	08/28/20 13:05	
280-139925-10	MW-5	Water	08/26/20 16:20	08/28/20 13:05	
280-139925-11	MW-6	Water	08/27/20 16:35	08/28/20 13:05	
280-139925-12	W-7-DUP	Water	08/27/20 14:05	08/28/20 13:05	
280-139925-13	MW-3-EB	Water	08/27/20 10:15	08/28/20 13:05	

# Client Sample Results

Client: HDR Inc

Job ID: 280-139925-1

Project/Site: Xcel Energy GW CCR Monitoring - Comanche

## Method: 6020A - Metals (ICP/MS) - Total Recoverable

**Client Sample ID: W-2A**

**Date Collected: 08/26/20 14:40**

**Date Received: 08/28/20 13:05**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	7900		10	2.0	mg/L		09/02/20 14:00	09/08/20 14:54	10
Potassium	59	F1	1.0	0.22	mg/L		09/02/20 14:00	09/03/20 19:44	1
Sodium	5500		10	3.3	mg/L		09/02/20 14:00	09/08/20 14:54	10

**Client Sample ID: W-3**

**Date Collected: 08/27/20 17:10**

**Date Received: 08/28/20 13:05**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	280		2.0	0.40	mg/L		09/02/20 14:00	09/04/20 18:00	2
Potassium	15		1.0	0.22	mg/L		09/02/20 14:00	09/03/20 20:07	1
Sodium	290		2.0	0.66	mg/L		09/02/20 14:00	09/04/20 18:00	2

**Client Sample ID: W-5**

**Date Collected: 08/27/20 09:05**

**Date Received: 08/28/20 13:05**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	580		2.0	0.40	mg/L		09/02/20 14:00	09/04/20 18:02	2
Potassium	9.5		1.0	0.22	mg/L		09/02/20 14:00	09/03/20 20:09	1
Sodium	2000		2.0	0.66	mg/L		09/02/20 14:00	09/04/20 18:02	2

**Client Sample ID: W-6**

**Date Collected: 08/27/20 09:00**

**Date Received: 08/28/20 13:05**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	860		2.0	0.40	mg/L		09/02/20 14:00	09/04/20 18:10	2
Potassium	9.9		1.0	0.22	mg/L		09/02/20 14:00	09/03/20 20:12	1
Sodium	1600		2.0	0.66	mg/L		09/02/20 14:00	09/04/20 18:10	2

**Client Sample ID: W-7**

**Date Collected: 08/27/20 14:00**

**Date Received: 08/28/20 13:05**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	7200		10	2.0	mg/L		09/02/20 14:00	09/04/20 18:12	10
Potassium	58		1.0	0.22	mg/L		09/02/20 14:00	09/03/20 20:15	1
Sodium	7600		10	3.3	mg/L		09/02/20 14:00	09/04/20 18:12	10

**Client Sample ID: MW-1**

**Date Collected: 08/27/20 13:25**

**Date Received: 08/28/20 13:05**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	2000		10	2.0	mg/L		09/02/20 14:00	09/04/20 18:15	10
Potassium	35		1.0	0.22	mg/L		09/02/20 14:00	09/03/20 20:17	1
Sodium	3300		10	3.3	mg/L		09/02/20 14:00	09/04/20 18:15	10

**Client Sample ID: MW-2**

**Date Collected: 08/28/20 09:30**

**Date Received: 08/28/20 13:05**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	3600		10	2.0	mg/L		09/02/20 14:00	09/04/20 18:17	10
Potassium	68		1.0	0.22	mg/L		09/02/20 14:00	09/03/20 20:20	1
Sodium	7400		10	3.3	mg/L		09/02/20 14:00	09/04/20 18:17	10

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# Client Sample Results

Client: HDR Inc

Job ID: 280-139925-1

Project/Site: Xcel Energy GW CCR Monitoring - Comanche

## Method: 6020A - Metals (ICP/MS) - Total Recoverable

**Client Sample ID: MW-3**

**Date Collected: 08/27/20 10:55**

**Date Received: 08/28/20 13:05**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	5600		10	2.0	mg/L		09/02/20 14:00	09/04/20 18:20	10
Potassium	53		1.0	0.22	mg/L		09/02/20 14:00	09/03/20 20:22	1
Sodium	6600		10	3.3	mg/L		09/02/20 14:00	09/04/20 18:20	10

**Client Sample ID: MW-4**

**Date Collected: 08/26/20 16:50**

**Date Received: 08/28/20 13:05**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	220		1.0	0.20	mg/L		09/02/20 14:00	09/04/20 18:22	1
Potassium	14		1.0	0.22	mg/L		09/02/20 14:00	09/03/20 20:25	1
Sodium	810		1.0	0.33	mg/L		09/02/20 14:00	09/04/20 18:22	1

**Client Sample ID: MW-5**

**Date Collected: 08/26/20 16:20**

**Date Received: 08/28/20 13:05**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	2200		10	2.0	mg/L		09/02/20 14:00	09/04/20 18:25	10
Potassium	39		1.0	0.22	mg/L		09/02/20 14:00	09/03/20 20:27	1
Sodium	5200		10	3.3	mg/L		09/02/20 14:00	09/04/20 18:25	10

**Client Sample ID: MW-6**

**Date Collected: 08/27/20 16:35**

**Date Received: 08/28/20 13:05**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	350		1.0	0.20	mg/L		09/02/20 14:00	09/04/20 18:28	1
Potassium	9.8		1.0	0.22	mg/L		09/02/20 14:00	09/03/20 20:30	1
Sodium	930		1.0	0.33	mg/L		09/02/20 14:00	09/04/20 18:28	1

**Client Sample ID: W-7-DUP**

**Date Collected: 08/27/20 14:05**

**Date Received: 08/28/20 13:05**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	7200		10	2.0	mg/L		09/02/20 14:00	09/04/20 18:30	10
Potassium	56		1.0	0.22	mg/L		09/02/20 14:00	09/03/20 20:38	1
Sodium	7600		10	3.3	mg/L		09/02/20 14:00	09/04/20 18:30	10

**Client Sample ID: MW-3-EB**

**Date Collected: 08/27/20 10:15**

**Date Received: 08/28/20 13:05**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	0.20	J	1.0	0.20	mg/L		09/02/20 14:00	09/04/20 18:33	1
Potassium	ND		1.0	0.22	mg/L		09/02/20 14:00	09/04/20 18:33	1
Sodium	ND		1.0	0.33	mg/L		09/02/20 14:00	09/04/20 18:33	1

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# QC Sample Results

Client: HDR Inc

Job ID: 280-139925-1

Project/Site: Xcel Energy GW CCR Monitoring - Comanche

## Method: 6020A - Metals (ICP/MS)

**Lab Sample ID: MB 240-449833/1-A**

**Matrix: Water**

**Analysis Batch: 450058**

**Client Sample ID: Method Blank**

**Prep Type: Total Recoverable**

**Prep Batch: 449833**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		1.0	0.22	mg/L	D	09/02/20 14:00	09/03/20 19:39	1

**Lab Sample ID: MB 240-449833/1-A**

**Matrix: Water**

**Analysis Batch: 450311**

**Client Sample ID: Method Blank**

**Prep Type: Total Recoverable**

**Prep Batch: 449833**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		1.0	0.20	mg/L	D	09/02/20 14:00	09/04/20 17:42	1
Sodium	ND		1.0	0.33	mg/L		09/02/20 14:00	09/04/20 17:42	1

**Lab Sample ID: LCS 240-449833/2-A**

**Matrix: Water**

**Analysis Batch: 450058**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total Recoverable**

**Prep Batch: 449833**

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Potassium		25.0	25.4		mg/L	D	101	80 - 120

**Lab Sample ID: LCS 240-449833/2-A**

**Matrix: Water**

**Analysis Batch: 450311**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total Recoverable**

**Prep Batch: 449833**

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Magnesium		25.0	25.4		mg/L	D	102	80 - 120
Sodium		25.0	24.7		mg/L		99	80 - 120

**Lab Sample ID: 280-139925-1 MS**

**Matrix: Water**

**Analysis Batch: 450058**

**Client Sample ID: W-2A**

**Prep Type: Total Recoverable**

**Prep Batch: 449833**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
Potassium	59	F1	25.0	77.8		mg/L	D	75	75 - 125

**Lab Sample ID: 280-139925-1 MS**

**Matrix: Water**

**Analysis Batch: 450444**

**Client Sample ID: W-2A**

**Prep Type: Total Recoverable**

**Prep Batch: 449833**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
Magnesium	7900		25.0	7800	4	mg/L	D	-280	75 - 125
Sodium	5500		25.0	5500	4	mg/L		86	75 - 125

**Lab Sample ID: 280-139925-1 MSD**

**Matrix: Water**

**Analysis Batch: 450058**

**Client Sample ID: W-2A**

**Prep Type: Total Recoverable**

**Prep Batch: 449833**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD
Potassium	59	F1	25.0	76.3	F1	mg/L	D	69	75 - 125

Eurofins TestAmerica, Denver

# QC Sample Results

Client: HDR Inc

Job ID: 280-139925-1

Project/Site: Xcel Energy GW CCR Monitoring - Comanche

## Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-139925-1 MSD

Matrix: Water

Analysis Batch: 450444

Client Sample ID: W-2A

Prep Type: Total Recoverable

Prep Batch: 449833

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	Limits	RPD	RPD Limit
Magnesium	7900		25.0	7250	4	mg/L	-2471	75 - 125	7	20	
Sodium	5500		25.0	5080	4	mg/L	-1581	75 - 125	8	20	

# QC Association Summary

Client: HDR Inc

Job ID: 280-139925-1

Project/Site: Xcel Energy GW CCR Monitoring - Comanche

## Metals

### Prep Batch: 449833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139925-1	W-2A	Total Recoverable	Water	3005A	1
280-139925-2	W-3	Total Recoverable	Water	3005A	2
280-139925-3	W-5	Total Recoverable	Water	3005A	3
280-139925-4	W-6	Total Recoverable	Water	3005A	4
280-139925-5	W-7	Total Recoverable	Water	3005A	5
280-139925-6	MW-1	Total Recoverable	Water	3005A	6
280-139925-7	MW-2	Total Recoverable	Water	3005A	7
280-139925-8	MW-3	Total Recoverable	Water	3005A	8
280-139925-9	MW-4	Total Recoverable	Water	3005A	9
280-139925-10	MW-5	Total Recoverable	Water	3005A	10
280-139925-11	MW-6	Total Recoverable	Water	3005A	11
280-139925-12	W-7-DUP	Total Recoverable	Water	3005A	12
280-139925-13	MW-3-EB	Total Recoverable	Water	3005A	13
MB 240-449833/1-A	Method Blank	Total Recoverable	Water	3005A	14
LCS 240-449833/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-139925-1 MS	W-2A	Total Recoverable	Water	3005A	
280-139925-1 MSD	W-2A	Total Recoverable	Water	3005A	

### Analysis Batch: 450058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139925-1	W-2A	Total Recoverable	Water	6020A	449833
280-139925-2	W-3	Total Recoverable	Water	6020A	449833
280-139925-3	W-5	Total Recoverable	Water	6020A	449833
280-139925-4	W-6	Total Recoverable	Water	6020A	449833
280-139925-5	W-7	Total Recoverable	Water	6020A	449833
280-139925-6	MW-1	Total Recoverable	Water	6020A	449833
280-139925-7	MW-2	Total Recoverable	Water	6020A	449833
280-139925-8	MW-3	Total Recoverable	Water	6020A	449833
280-139925-9	MW-4	Total Recoverable	Water	6020A	449833
280-139925-10	MW-5	Total Recoverable	Water	6020A	449833
280-139925-11	MW-6	Total Recoverable	Water	6020A	449833
280-139925-12	W-7-DUP	Total Recoverable	Water	6020A	449833
MB 240-449833/1-A	Method Blank	Total Recoverable	Water	6020A	449833
LCS 240-449833/2-A	Lab Control Sample	Total Recoverable	Water	6020A	449833
280-139925-1 MS	W-2A	Total Recoverable	Water	6020A	449833
280-139925-1 MSD	W-2A	Total Recoverable	Water	6020A	449833

### Analysis Batch: 450311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139925-2	W-3	Total Recoverable	Water	6020A	449833
280-139925-3	W-5	Total Recoverable	Water	6020A	449833
280-139925-4	W-6	Total Recoverable	Water	6020A	449833
280-139925-5	W-7	Total Recoverable	Water	6020A	449833
280-139925-6	MW-1	Total Recoverable	Water	6020A	449833
280-139925-7	MW-2	Total Recoverable	Water	6020A	449833
280-139925-8	MW-3	Total Recoverable	Water	6020A	449833
280-139925-9	MW-4	Total Recoverable	Water	6020A	449833
280-139925-10	MW-5	Total Recoverable	Water	6020A	449833
280-139925-11	MW-6	Total Recoverable	Water	6020A	449833
280-139925-12	W-7-DUP	Total Recoverable	Water	6020A	449833
280-139925-13	MW-3-EB	Total Recoverable	Water	6020A	449833

Eurofins TestAmerica, Denver

# QC Association Summary

Client: HDR Inc

Project/Site: Xcel Energy GW CCR Monitoring - Comanche

Job ID: 280-139925-1

## Metals (Continued)

### Analysis Batch: 450311 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-449833/1-A	Method Blank	Total Recoverable	Water	6020A	449833
LCS 240-449833/2-A	Lab Control Sample	Total Recoverable	Water	6020A	449833

### Analysis Batch: 450444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-139925-1	W-2A	Total Recoverable	Water	6020A	449833
280-139925-1 MS	W-2A	Total Recoverable	Water	6020A	449833
280-139925-1 MSD	W-2A	Total Recoverable	Water	6020A	449833

# Lab Chronicle

Client: HDR Inc

Project/Site: Xcel Energy GW CCR Monitoring - Comanche

Job ID: 280-139925-1

## **Client Sample ID: W-2A**

Date Collected: 08/26/20 14:40

Date Received: 08/28/20 13:05

## **Lab Sample ID: 280-139925-1**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			450058	09/03/20 19:44	DSH	TAL CAN
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		10			450444	09/08/20 14:54	RKT	TAL CAN

## **Client Sample ID: W-3**

Date Collected: 08/27/20 17:10

Date Received: 08/28/20 13:05

## **Lab Sample ID: 280-139925-2**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			450058	09/03/20 20:07	DSH	TAL CAN
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		2			450311	09/04/20 18:00	RKT	TAL CAN

## **Client Sample ID: W-5**

Date Collected: 08/27/20 09:05

Date Received: 08/28/20 13:05

## **Lab Sample ID: 280-139925-3**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			450058	09/03/20 20:09	DSH	TAL CAN
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		2			450311	09/04/20 18:02	RKT	TAL CAN

## **Client Sample ID: W-6**

Date Collected: 08/27/20 09:00

Date Received: 08/28/20 13:05

## **Lab Sample ID: 280-139925-4**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			450058	09/03/20 20:12	DSH	TAL CAN
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		2			450311	09/04/20 18:10	RKT	TAL CAN

## **Client Sample ID: W-7**

Date Collected: 08/27/20 14:00

Date Received: 08/28/20 13:05

## **Lab Sample ID: 280-139925-5**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			450058	09/03/20 20:15	DSH	TAL CAN
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		10			450311	09/04/20 18:12	RKT	TAL CAN

Eurofins TestAmerica, Denver

# Lab Chronicle

Client: HDR Inc

Project/Site: Xcel Energy GW CCR Monitoring - Comanche

Job ID: 280-139925-1

**Client Sample ID: MW-1**

Date Collected: 08/27/20 13:25

Date Received: 08/28/20 13:05

**Lab Sample ID: 280-139925-6**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			450058	09/03/20 20:17	DSH	TAL CAN
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		10			450311	09/04/20 18:15	RKT	TAL CAN

**Client Sample ID: MW-2**

Date Collected: 08/28/20 09:30

Date Received: 08/28/20 13:05

**Lab Sample ID: 280-139925-7**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			450058	09/03/20 20:20	DSH	TAL CAN
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		10			450311	09/04/20 18:17	RKT	TAL CAN

**Client Sample ID: MW-3**

Date Collected: 08/27/20 10:55

Date Received: 08/28/20 13:05

**Lab Sample ID: 280-139925-8**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			450058	09/03/20 20:22	DSH	TAL CAN
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		10			450311	09/04/20 18:20	RKT	TAL CAN

**Client Sample ID: MW-4**

Date Collected: 08/26/20 16:50

Date Received: 08/28/20 13:05

**Lab Sample ID: 280-139925-9**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			450058	09/03/20 20:25	DSH	TAL CAN
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			450311	09/04/20 18:22	RKT	TAL CAN

**Client Sample ID: MW-5**

Date Collected: 08/26/20 16:20

Date Received: 08/28/20 13:05

**Lab Sample ID: 280-139925-10**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			450058	09/03/20 20:27	DSH	TAL CAN
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		10			450311	09/04/20 18:25	RKT	TAL CAN

Eurofins TestAmerica, Denver

# Lab Chronicle

Client: HDR Inc

Project/Site: Xcel Energy GW CCR Monitoring - Comanche

Job ID: 280-139925-1

**Client Sample ID: MW-6**

Date Collected: 08/27/20 16:35

Date Received: 08/28/20 13:05

**Lab Sample ID: 280-139925-11**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			450058	09/03/20 20:30	DSH	TAL CAN
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			450311	09/04/20 18:28	RKT	TAL CAN

**Client Sample ID: W-7-DUP**

Date Collected: 08/27/20 14:05

Date Received: 08/28/20 13:05

**Lab Sample ID: 280-139925-12**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			450058	09/03/20 20:38	DSH	TAL CAN
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		10			450311	09/04/20 18:30	RKT	TAL CAN

**Client Sample ID: MW-3-EB**

Date Collected: 08/27/20 10:15

Date Received: 08/28/20 13:05

**Lab Sample ID: 280-139925-13**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	449833	09/02/20 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			450311	09/04/20 18:33	RKT	TAL CAN

## Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Eurofins TestAmerica, Denver

# Accreditation/Certification Summary

Client: HDR Inc

Project/Site: Xcel Energy GW CCR Monitoring - Comanche

Job ID: 280-139925-1

## Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-20 *
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

## Chain of Custody Record

Denver  
#280

eurofins

ENVIRONMENTAL LEARNING  
AMERICA

<b>Client Information</b>	Sampler: <u>J.S./J.M.</u>	Carrier Tracking No(s):	COC No. 280-101467-30342.1
Client Contact: Molly Reeves	Phone: <u>720-838-6925</u>	Lab P.M.: E-Mail: Darlene Bandy <a href="mailto:Darlene.Bandy@Eurofinsel.com">Darlene.Bandy@Eurofinsel.com</a>	Page: 1 of 2

Client Information		Sampler: TS/JM Phone: 720-838-6069		Lab P.M. Bandy, Darlene F E-Mail: Darlene.Bandy@Eurofins.com		Carrier Tracking No(s):																																																																																																																																																																																									
Address: 9781 S. Meridian Blvd Suite 400 City: Englewood State Zip: CO. 80112 Phone: 734-263-7138(Tel) Email: Molly.Reeves@hdriinc.com Project Name: Xcel Energy GCR Monitoring - Comanche Site: Colorado	Client Contact: Molly Reeves Company: HDR Inc	Job #:	Page: Page 1 of 2	COC No. 280-101467-30342-1 Page: Page 1 of 2	Date:	Time:	Method of Shipment:																																																																																																																																																																																								
<table border="1"> <thead> <tr> <th colspan="8">Analysis Requested</th> </tr> </thead> <tbody> <tr> <td colspan="8"> <input checked="" type="checkbox"/> Total Number of containers  <input type="checkbox"/> Total Metals - Mg, K, Na  <input type="checkbox"/> 2320A - Alkalinity  <input type="checkbox"/> 2320B - Alkalinity  <input type="checkbox"/> Field Filtered Sample (Yes or No)  <input type="checkbox"/> Perform MS/MSD (Yes or No)         </td> </tr> <tr> <td colspan="8"> <b>Rush</b>  <b>Fastest Possible</b> </td> </tr> <tr> <td colspan="8">         PO#:          DEN-018          VNO#:          Project #: 28014376          SSOW#:       </td> </tr> <tr> <td colspan="8">         Matrix          (W=water,          S=solid,          O=oil,          T=tissue, A=Air)       </td> </tr> <tr> <td colspan="8">         Sample Date      Sample Time      Sample Type (C=comp, G=grab)      Preservation Code:       </td> </tr> <tr> <td colspan="8">         N      D       </td> </tr> <tr> <td>Sample Identification</td> <td>W-1</td> <td>8/26/20</td> <td>1440</td> <td>G</td> <td>Water</td> <td>N</td> <td>X</td> </tr> <tr> <td></td> <td>W-2A</td> <td></td> <td></td> <td></td> <td>Water</td> <td>N</td> <td>X</td> </tr> <tr> <td></td> <td>W-2B</td> <td></td> <td></td> <td></td> <td>Water</td> <td>N</td> <td></td> </tr> <tr> <td></td> <td>W-3</td> <td>8/27/20</td> <td>1710</td> <td>G</td> <td>Water</td> <td>N</td> <td>X</td> </tr> <tr> <td></td> <td>W-4</td> <td></td> <td></td> <td></td> <td>Water</td> <td>N</td> <td></td> </tr> <tr> <td></td> <td>W-5</td> <td>8/27/20</td> <td>0905</td> <td>G</td> <td>Water</td> <td>N</td> <td>X</td> </tr> <tr> <td></td> <td>W-6</td> <td>8/27/20</td> <td>0905</td> <td>G</td> <td>Water</td> <td>N</td> <td>X</td> </tr> <tr> <td></td> <td>W-7</td> <td>8/27/20</td> <td>1400</td> <td>G</td> <td>Water</td> <td>N</td> <td>X</td> </tr> <tr> <td></td> <td>W-8A</td> <td></td> <td></td> <td></td> <td>Water</td> <td>N</td> <td></td> </tr> <tr> <td></td> <td>W-8B</td> <td></td> <td></td> <td></td> <td>Water</td> <td>N</td> <td></td> </tr> <tr> <td></td> <td>MW-1</td> <td>8/27/20</td> <td>1325</td> <td>G</td> <td>Water</td> <td>N</td> <td>X</td> </tr> <tr> <td colspan="8">         Possible Hazard Identification  <input type="checkbox"/> Non-Hazard      <input type="checkbox"/> Flammable      <input type="checkbox"/> Skin Irritant      <input type="checkbox"/> Poison B      <input type="checkbox"/> Unknown      <input type="checkbox"/> Radiological          Deliverable Requested: I, II, III, IV, Other (specify)       </td> </tr> <tr> <td colspan="8">         Empty Kit Relinquished By:          Relinquished by: <u>J. Bandy</u>          Relinquished by: <u>J. Bandy</u>          Relinquished by: <u>J. 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## Eurofins TestAmerica, Denver

4955 Yarrow Street  
Arvada, CO 80002  
Phone: 303-736-0100 Fax: 303-431-7171

## Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler	Lab P/M Bandy, Darlene F	Carrier Tracking No(s)	COC No 280-537252-1
Client Contact	Phone	E-Mail Darlene.Bandy@EurofinsTest.com	State of Origin: Colorado	Page 1 of 2	
Shipping/Receiving Company		Accreditations Required (See note) DD - A2LA	Job # 280-139925-1		
Address:	4101 Shuffel Street NW,	Due Date Requested 9/9/2020	TAT Requested (days):	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ica J - DI Water K - EDTA L - EDA M - pH 4-5 N - None O - AnNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecylbenzene U - Acetone V - MeAA W - pH 4-5 Z - other (specify) Other:	
City	North Canton				
State, Zip	OH, 44720				
Phone	330-497-9396(Tel) 330-497-0772(Fax)				
Email					
Project Name	Xcel Energy GW CCR Monitoring - Comanche				
Site	Xcel Energy CCR - Comanche Station				
6020A/3005A (MOD) Total Metals (w/collision cell)					
Perform MS/MSD (Yes or No)					
Field Filtered Sample (Yes or No)					
Sample Identification - Client ID (Lab ID)					
	Sample Date	Sample Time	Sample Type (C=comp, G=grab, B=breath, Matrix (Water, Sarcoid, Or-waste, Oil))	Preservation Code:	
W-2A (280-139925-1)	8/26/20	14:40	Water	X	- 1 Use Collision Cell
W-3 (280-139925-2)	8/27/20	17:10	Water	X	- 1 Use Collision Cell
W-5 (280-139925-3)	8/27/20	09:05	Water	X	- 1 Use Collision Cell
W-6 (280-139925-4)	8/27/20	08:00	Water	X	- 1 Use Collision Cell
W-7 (280-139925-5)	8/27/20	14:00	Water	X	- 1 Use Collision Cell
MW-1 (280-139925-6)	8/27/20	13:25	Water	X	- 1 Use Collision Cell
MW-2 (280-139925-7)	8/28/20	09:30	Water	X	- 1 Use Collision Cell
MW-3 (280-139925-8)	8/27/20	10:55	Water	X	- 1 Use Collision Cell
MW-4 (280-139925-9)	8/26/20	16:50	Water	X	- 1 Use Collision Cell
Special Instructions/Note: 534					
Sample Disposal / A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months					
Special Instructions/QC Requirements:					
Unconfirmed	Date/Time 8/31/2020	Date/Time 1:30 PM	Received by <i>John H.</i>	Method of Shipment:	
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 4	Date:	Time:		
Empty Kit Relinquished by:					
Relinquished by:	Date/Time 8/31/2020	Date/Time 1:30 PM	Received by <i>John H.</i>	Date/Time 9-1-20 1040	
Relinquished by:	Date/Time 8/31/2020	Date/Time 1:30 PM	Received by <i>John H.</i>	Date/Time Company	
Relinquished by:	Date/Time 8/31/2020	Date/Time 1:30 PM	Received by <i>John H.</i>	Date/Time Company	
Custody Seals intact: Yes □ No □	Cooler Temperature(s) °C and Other Remarks				

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analysis & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all required accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica

### Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify)

Primary Deliverable Rank: 4

Sample Disposal / A fee may be assessed if samples are retained longer than 1 month)

Return To Client  Disposal By Lab  Archive For Months

Unconfirmed	Date/Time 8/31/2020	Date/Time 1:30 PM	Received by <i>John H.</i>	Date/Time 9-1-20 1040
Relinquished by:	Date/Time 8/31/2020	Date/Time 1:30 PM	Received by <i>John H.</i>	Date/Time Company
Relinquished by:	Date/Time 8/31/2020	Date/Time 1:30 PM	Received by <i>John H.</i>	Date/Time Company

<b>Client Information (Sub Contract Lab)</b>		Sampler:	Lat/Long:	Carrier Tracking No(s):
Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc.		Phone:	Bandy, Darlene F E-Mail: Darlene.Bandy@Eurofinsel.com	State of Origin: Colorado
Address: 4101 Shuffel Street NW, City: North Canton State, Zip: OH, 44120 Phone:		Accreditations Required (See note): DoD - A2LA		
Due Date Requested: 9/9/2020 TAT Requested (days):		<b>Analysis Requested</b>		
PO #:				
W/O #:				
Project #: 28014376 SSOW#:				
Site: Xcel Energy CCR - Comanche Station				
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)
				Matrix (Water, Sewage, Oilfield, BTEX/Trace Analy.)
				Preservation Code
Field Filtered Sample (Yes or No): 6026A-3005A (MOD) 3 Total Metals (w/Collision Cell)				
Perform MS/MSD (yes or No):				
Total Number of Containers:				
Preservation Codes:				
Special Instructions/Note:				
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analysis &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analytes/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p> <p><b>Possible Hazard Identification</b> Unconfirmed Deliverable Requested: I, II, III, IV. Other (specify)</p> <p><b>Empty Kit Relinquished by:</b> Relinquished by <i>Darlene F Bandy</i> Relinquished by <i>John P. Jones</i> Relinquished by <i>John P. Jones</i></p> <p>Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____</p> <p>Carrier Temperature(s) °C and Other Remarks: _____</p>				
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Primary Deliverable Rank: 4 Date: <i>8/31/2020</i> Date/Time: <i>13:00</i> Date/Time: <i>8/31/2020</i> Company: <i>Eurofins Test America</i> Date/Time: <i>8/31/2020</i> Company: <i>Eurofins Test America</i> Date/Time: <i>8/31/2020</i> Company: <i>Eurofins Test America</i>		Method of Shipment: Received by <i>John P. Jones</i> Date/Time: <i>9/1/2020 10:40</i> Company: <i>Eurofins Test America</i> Received by <i>John P. Jones</i> Date/Time: <i>9/1/2020 10:40</i> Company: <i>Eurofins Test America</i> Received by <i>John P. Jones</i> Date/Time: <i>9/1/2020 10:40</i> Company: <i>Eurofins Test America</i>		

Note: Since non-laboratory accreditations are subject to change, Eurofins/TestAmerica places the ownership of method, analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently have accreditation in the State of Origin listed above for analysis/test/Matrix being analyzed, the samples must be shipped back to the Eurofins/TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins/TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins/TestAmerica.

Possible Hazard Identification

Unconfirmed

**Deliverable Requested:** I, II, III, IV, Other (specify)

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Empty Kit Relinquished by:

Retired/relinquished by: ✓

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Relinquished by

Retracted by

Custody Seal No.:

Eurofins TestAmerica Canton Sample Receipt Form/Narrative						Login # :
Canton Facility						
Client <u>ETA Denver</u>	Site Name _____			Cooler unpacked by: <u>Matt Snyder</u>		
Cooler Received on <u>9-1-20</u>	Opened on <u>9-1-20</u>					
FedEx: 1 <sup>st</sup> Grd <u>Exp</u>	UPS	FAS	Clipper	Client Drop Off	TestAmerica Courier	Other
<b>Receipt After-hours:</b> Drop-off Date/Time				Storage Location		
TestAmerica Cooler # <u>1A</u>	Foam Box	Client Cooler	Box	Other		
Packing material used: <u>Bubble Wrap</u>	Foam	Plastic Bag	None	Other		
COOLANT: <u>Wet Ice</u>	Blue Ice	Dry Ice	Water	None		
1. Cooler temperature upon receipt	<input type="checkbox"/> See Multiple Cooler Form					
IR GUN# IR-10 (CF +0.7 °C)	Observed Cooler Temp.	°C	Corrected Cooler Temp.	°C		
IR GUN #IR-11 (CF +0.9°C)	Observed Cooler Temp.	<u>1.3</u>	Corrected Cooler Temp.	<u>2.2</u>		
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
-Were the seals on the outside of the cooler(s) signed & dated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	NA			
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
-Were tamper/custody seals intact and uncompromised?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
3. Shippers' packing slip attached to the cooler(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
4. Did custody papers accompany the sample(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
5. Were the custody papers relinquished & signed in the appropriate place?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
6. Was/were the person(s) who collected the samples clearly identified on the COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
7. Did all bottles arrive in good condition (Unbroken)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
8. Could all bottle labels be reconciled with the COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
9. Were correct bottle(s) used for the test(s) indicated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
10. Sufficient quantity received to perform indicated analyses?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
11. Are these work share samples?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
If yes, Questions 12-16 have been checked at the originating laboratory.						
12. Were all preserved sample(s) at the correct pH upon receipt?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	NA			
13. Were VOAs on the COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
14. Were air bubbles >6 mm in any VOA vials? <input checked="" type="checkbox"/> Larger than this.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
16. Was a LL Hg or Me Hg trip blank present? _____	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other						
Concerning _____						
<b>17. CHAIN OF CUSTODY &amp; SAMPLE DISCREPANCIES</b>						Samples processed by: _____
<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>						
<b>18. SAMPLE CONDITION</b>						
Sample(s) _____	were received after the recommended holding time had expired.					
Sample(s) _____	were received in a broken container.					
Sample(s) _____	were received with bubble >6 mm in diameter. (Notify PM)					
<b>19. SAMPLE PRESERVATION</b>						
Sample(s) _____	were further preserved in the laboratory.					
Time preserved: _____ Preservative(s) added/Lot number(s): _____						
VOA Sample Preservation - Date/Time VOAs Frozen: _____						

## Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 280-139925-1

**Login Number:** 139925

**List Source:** Eurofins TestAmerica, Denver

**List Number:** 1

**Creator:** Pottruff, Reed W

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	